ALCOLIZER LE5

USER MANUAL

Disclaimer – External Documents
Note to Reader **The BAC reading obtained by correct use of this device is only considered accurate at the time of testing. Great care has been taken to ensure the accuracy of each reading.** **Neither the manufacturer, the distributor, nor the owner accepts liability or responsibility due to any action or claim arising from the reading produced by this device, whether used correctly or incorrectly.**

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1. INTRODUCTION

This User Manual details the operation of the Alcolizer LE5 alcohol breath testing device and Alcoconnect software for managing and analysing breath test results.

This User Manual is divided into various Sections and Sub-sections to enable the user to access the required information with ease. It includes Cautions and Notes applicable to the LE5 device and a Specifications table.

NOTE

This User manual is applicable to the Alcolizer LE5 version S5MAPP installed with firmware version 1.26 and later.

2. DESCRIPTION OF LE5

2.1. Equipment Overview

The LE5 Equipment List includes the following items:

- LE5 handheld device (Li-ION powered or AA Alkaline battery powered),
- USB cable,
- Battery Chargers (240VAC and 12VDC vehicle, Li-ION version only),
- User Manual and Alcoconnect CD,
- Silicon protective cover (optional) and wrist strap,
- Carry bag or metal case (optional), and
- Bluetooth printer (optional).

2.2. Device Overview

The LE5 is a handheld device consisting of a hard plastic outer case, optional silicon cover, wrist strap and the following user displays, buttons and adaptor sockets (refer Figure 1):

a. Test Key,
b. LCD Colour Graphics Display,
c. Mouthpiece Locator and Sample Inlet Spigot,
d. Up and Down buttons,
e. USB Port, and
f. Battery Charging Port/AA Alkaline Battery Compartment (refer Figure 2)

Figure 1 – User Display, Buttons and Adapter Sockets

Figure 2 – Charging Port (left) and AA Battery Compartment (right)

2.2.1. Test Key

The Test Key activates selected functions.

2.2.2. LCD Colour Graphics Display

Displays the various functions of the device including:

a. Welcome screen which includes days remaining till next calibration(if activated);
b. Various Test modes (Mouthpiece, Passive Standard and Passive Only);
c. Extensive menus and options;
d. Ready notification;
e. Blow notification including progress bar;
f. BAC level in various formats;
g. GPS acquisition data;
h. Printer setup; and
i. Records information.

These and other displays are explained in the Operating Instructions Section.

2.2.3. Mouthpiece Locator and Sample Inlet Spigot

The disposable mouthpiece (sample tube) is located on the Mouthpiece Locator which surrounds the Sample Inlet Spigot.

2.2.4. Up and Down Buttons

The Up and Down buttons allow access to various sub menus. Operation of both buttons also facilitates access to the *Off* function (refer Section 3).

2.2.5. USB Port

The USB port facilitates connection of the device to a USB equipped computer using the cable included with the device. Refer to Section 11 for instructions on using the Alcoconnect toolbox.

2.2.6. Battery Charger Port (Li-ION powered devices only)

The Battery Charging Port, installed only on the Li-ION powered devices, is located beneath a moisture proof cap under the wrist strap bracket and facilitates connection to the battery chargers included with the device.

2.2.7. AA Battery Compartment (Alkaline powered devices only)

The AA Alkaline battery compartment, installed only on the AA Alkaline powered devices, is located beneath a dust proof cap adjacent to the wrist strap bracket. For access to the compartment refer to paragraph 3.5.

3. OPERATING INSTRUCTIONS

CAUTION

While the LE5 is a robust device, it does contain sensitive instrumentation and should not be subject to rough handling or become submerged in water.

Do not store device in direct sunlight or places where extreme temperature conditions can occur.

NOTE

The LE5 has optional functions which may or may not be active on your device. The screen images shown in this User Manual may differ to your device depending on the options fitted or functions enabled.

3.1. General Information

The following information should be observed when conducting breath test analysis using this device:

a. To obtain an accurate reading, alcohol should not be consumed, or mouthwash containing alcohol used for at least 15 minutes prior to using this device.

b. Blood Alcohol Concentration (BAC) readings can continue to rise or fluctuate for up to two hours after alcohol was last consumed. Should the BAC readings be near or over the local threshold, drinking should cease, then a re-test conducted after 15 minutes.

c. Driving or operating machinery should not occur until a new test shows a decline in BAC reading and the BAC reading is below the local legislation legal limit.

d. It can take up to one hour for the average person's system to absorb a 0.01 BAC before the level returns to zero. In such circumstances further testing later in the day or the following morning is strongly recommended.

3.2. Testing Types

The LE5 can perform both Mouthpiece and Passive (Passive Standard and Passive Only) testing. Mouthpiece testing provides a BAC reading in g/100ml (or other formats as required) and Passive testing will display the presence of alcohol in breath. Following a Passive test that indicates the presence of alcohol, a Mouthpiece test should then be performed if an accurate BAC is required.

NOTE

Mouthpiece testing is also referred to as Standard or Active testing.

3.3. Mouthpieces

There are two types of Mouthpieces available for use on the LE5 (refer Figure 3). These are the:

- Spit Trap Non Return Valve Mouthpiece (2 variants), and
- Standard Spigot Locator Mouthpiece.

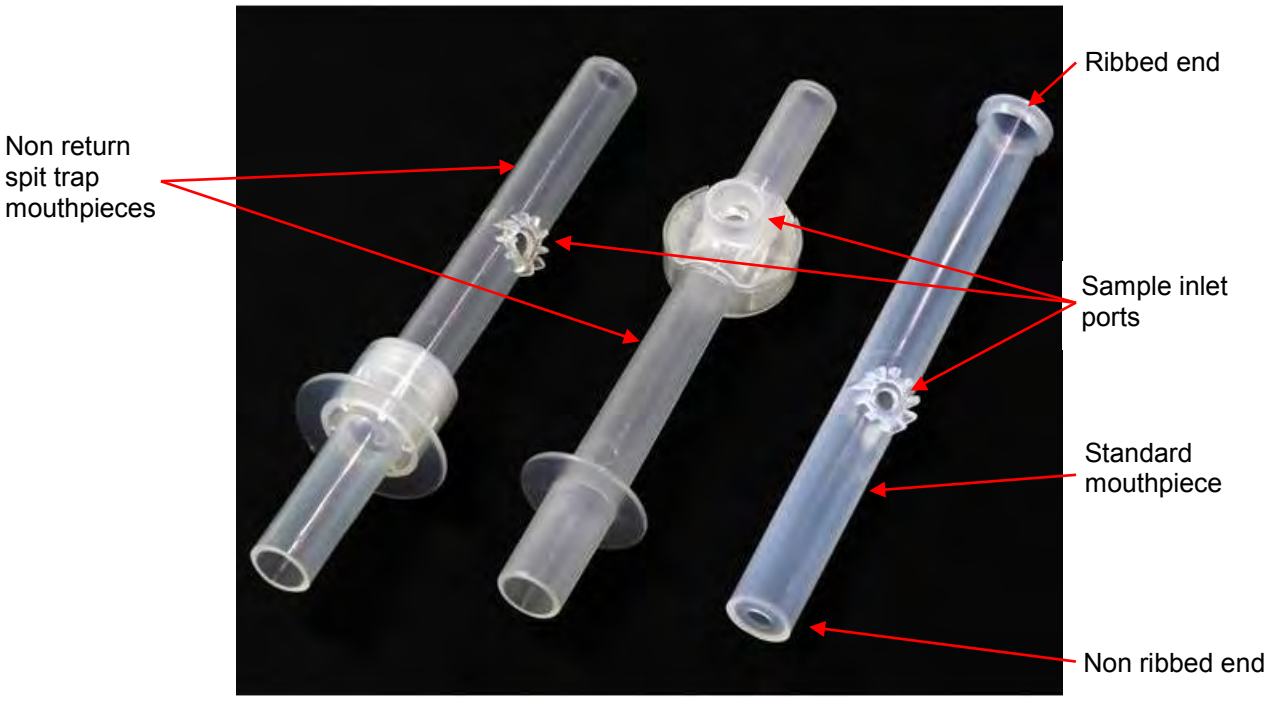

Figure 3 – Mouthpiece Types

The advantage of using the spit trap type mouthpieces is that most of the saliva in the exhaled breath is collected in the mouthpiece and does not enter the device.

3.4. Charging the Battery (Li-ION powered device)

Prior to initial use, the LE5 battery should be fully charged. The battery charge cycle may take up to two hours.

CAUTION

The battery in the LE5 device is a Li-ION battery. As such it should not be tampered with in anyway. Should any problems occur that are related to the battery, contact your local Alcolizer representative for advice.

Only use the battery charger supplied with the Alcolizer supplied equipment. Use of non Alcolizer battery chargers could damage the device and render it inoperative.

Charge the battery as follows:

a. Connect the charger DC socket to the LE5 battery charging port (refer Figure 1).

b. Connect the AC or DC (vehicle) plug to a suitable power supply and switch on power.

The device will automatically start and *Charging* will be displayed.

When the battery is fully charged, the battery condition indicator on the LCD Colour Graphics Display will display five bars (refer Figure 4).

Figure 4 – Battery Condition Indicator

Recharge the battery when the battery condition indicator shows one bar to ensure testing will not be interrupted by a flat battery.

NOTE

The device cannot be used for testing during charging but can be used for accessing Records (refer Section 8).

3.5. Changing the batteries (AA Alkaline powered device)

Prior to initial use, the LE5 batteries should be new. Alcolizer recommend the use of Eveready® AA Alkaline EN91 batteries for the LE5. Change the batteries in accordance with the following procedures (refer Figure 5):

a. Invert the device so the compartment hatch is upper most (refer Figure 5a).

b. Access the battery compartment by pressing the compartment release button on the underside of the device (refer Figure 5a). The compartment hatch will pop out.

NOTE

If the device has a silicon cover installed, the release button is operatable by pressing the raised portion over the button on the back of the device. Removal of the cover is not required to change the batteries.

c. Open the hatch by gently moving it to expose the compartment (refer Figure 5b).

d. Remove the flat batteries and insert two new batteries ensuring the polarity is correct. Polarity markings (o and +) are marked on the hatch contactor (refer Figure 5b).

e. Close the hatch by gently positioning it in place and pressing it closed (refer Figure 5c). A click indicates the hatch is locked.

Figure 5 – Installing/Replacing AA Alkaline Batteries

3.6. Turning On Device

Turn the device on as follows:

a. Press either the Test key or Up/down buttons. A company logo screen will appear for a period of five seconds prior to the test screen displaying. The logo screen can be terminated sooner by pressing either the Test key or Up/down buttons a second time.

NOTE

On specially configured devices, additional information may be displayed on start-up e.g. Device serial number, Sample module serial number and days till calibration.

To permanently display this information, hold the Test key down for an extended period upon start up.

b. The Display will show *press to test* (refer Figure 6).

Figure 6 – Press to test message

3.6.1. Mouthpiece Testing

CAUTION

To maintain a healthy sampling environment, the following procedures must be strictly adhered to.

Attach the mouthpiece to the device as follows:

a. Grasp the mouthpiece at the non-ribbed end and tear the plastic wrapping from the ribbed end, downwards to expose the sample inlet hole.

b. Locate the mouthpiece sample inlet port over the mouthpiece locator in line with the recesses that surround the spigot (refer Figure 7).

c. Press the mouthpiece sample inlet port onto the locator until it is attached securely (refer Figure 8). The orientation of the mouthpiece will not affect the sampling.

d. Remove the remaining portion of the plastic wrap just prior to testing to ensure hygienic use.

Figure 7 – Locating the Mouthpiece

Figure 8 – Mouthpiece correctly positioned

3.6.2. Taking a Mouthpiece (Active) Breath Sample

NOTE

Before taking a breath sample, ensure the subject has not consumed alcohol for at least 15 minutes.

If any step in a breath test sequence is not completed or the device is left idle for a prolonged period of time, then the device will terminate the breath test and display *Test timed out*. The device will return to the *press to test* display

The standard breath test time out period is 60 seconds. If a test time out does occur during a breath test, a new breath test must be performed.

Perform a Mouthpiece Test as follows:

a. Press the Test key. The device will perform a self-test and *Please wait...* and a progress bar will be displayed.

NOTE

If the self-check is unsuccessful an error code will be displayed and the device will not accept a breath sample.

b. *BLOW* will be displayed when the device is ready (refer Figure 9).

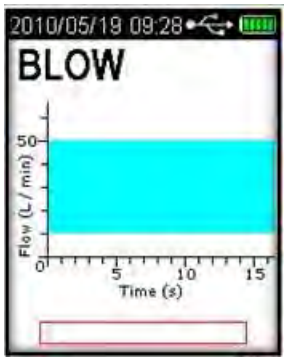

Figure 9 – Blow is displayed when device is ready

c. After taking a deep breath, the test subject places their mouth over mouthpiece inlet (ribbed end) and blows a gentle to medium breath sample into the mouth piece (refer Figure 10).

Figure 10 – Providing a sample

d. The exhaled breath volume is indicated via a bar graph; scrolling left to right at the bottom the screen and a graph showing air flow over time in seconds (refer Figure 11). A beeping sound is also heard during the breath sample delivery phase, indicating a satisfactory breath sample is being delivered.

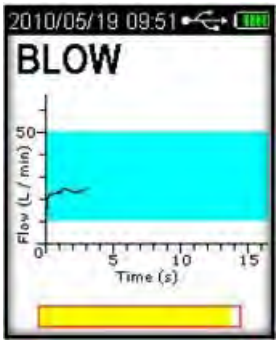

Figure 11 – Sample progress bar

e. The test subject continues blowing until the device takes a sample of the exhaled breath volume, indicated by a click and long beep sound.

The frequency of the sound beeps increases with the intensity of the blow pressure. Blowing too hard or too soft will result in *Invalid Sample Try Again* being displayed (refer Figure 12). The device will return to the Blow screen so another sample can be taken.

Figure 12 – Invalid Sample try Again message

3.6.3. Analysing a Mouthpiece Breath Sample

After a valid breath sample is taken, the *Analysing Sample* message is displayed until the device calculates the BAC reading. This will normally take a few seconds. In cold climate conditions it may take longer to display the BAC reading (refer Figure 13).

Figure 13 – Analysing sample message

When the BAC reading is calculated, it will be displayed on the screen together with unit of measurement (e.g. g/100ml, g/210L) and be retained until the Recovering period has ended. The screen colour will vary depending on the percentage of alcohol present; green for zero, orange for zero to 0.049 g/100ml, g/210L and red for readings greater than 0.05 g/100ml, g/210L. The *Recovering* period is indicated by Recovering shown on the display (refer Figure 14).

Figure 14 – Various BAC and screen colours displayed

The Recovering period is the time the fuel cell sensor requires to recover from the previous breath test. This period will vary according to BAC readings displayed, longer for higher readings.

Remove the used mouthpiece by rotating it. It will come away from the spigot easily. Dispose of mouthpieces in a responsible manner.

To perform another breath test, repeat the steps in paragraph 3.6.1.

3.6.4. Passive Testing

Passive testing is a test that is performed in a non-invasive manner and without using mouthpieces. The LE5 can perform two types of Passive testing. These are Passive Standard and Passive Only.

All Passive testing is performed by holding the device approximately 80mm to 100mm in front of the test subject's mouth and asking them to count or talk so that exhaled breath may be picked up by the device and analysed for the presence of any alcohol.

When using Passive Standard testing, a Mouthpiece test is automatically enabled should the device detect alcohol on the subject's exhaled breath. Passive Only testing does not prompt the user for further testing.

3.6.5. Enabling Passive Standard

If Passive standard mode has not been enabled, proceed as follows:

a. With the screen displaying *press to test*, press the Up and Down buttons simultaneously. The User Menu will be displayed.

b. Press the down button to scroll down to *Test Type* (refer Figure 15).

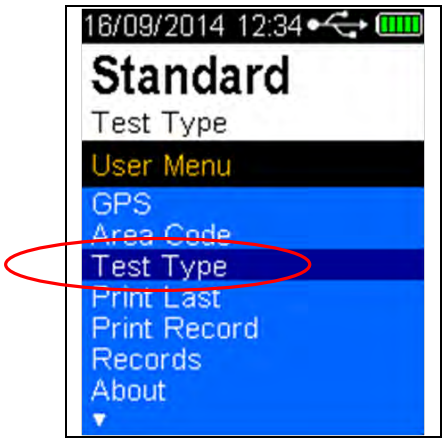

Figure 15 – Test Type displayed

c. Press the Test key until *Passive Std* is displayed (refer Figure 16).

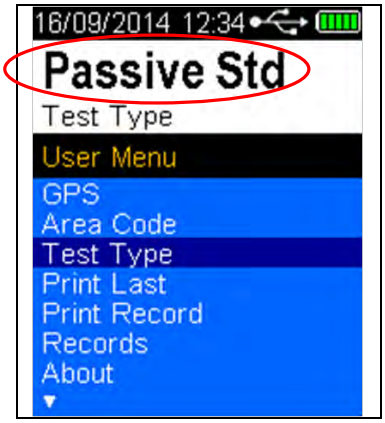

Figure 16 – Passive Standard displayed

d. Press the Up and Down buttons simultaneously. Passive Standard is now enabled or press the Down button until *Back* is highlighted then press the Test key to leave the User Menu.

3.6.6. Taking a Passive Standard Breath Sample

NOTE

If any step in a breath test sequence is not completed or the device is left idle for a prolonged period of time, then the device will terminate the breath test and display *Test timed out* the device will return to the *press passive test* display.

The standard breath test time out period is 60 seconds. If a test time out does occur during a breath test, a new breath test must be performed. Press the Test key to perform a new passive breath test as per steps above.

Perform a Passive Standard test as follows:

a. On the *press passive test* page, press the Test key. *Ready for passive Test* is displayed (refer Figure 17).

Figure 17 – Ready for passive test message

b. Press the Test button. The device will perform a self-test and then return *to Ready for passive Test*.

c. Hold the device no further than 100mm in front of the test subject's mouth; so that the subject is breathing or talking directly into the device's sample inlet port (refer Figure 18).

Figure 18 – Providing a Passive sample

d. Ask the Subject to start counting from 20 onwards a one second rhythm, until you tell them to stop, "20…21…22…23…24…25…etc."

e. Press the Test button while subject is counting. The device will make a series of clicking sounds as the sample is being taken.

The device is set to take three pump samples. During these three pumps the operator must hold the device steady and at the same distance from the subject. The device will give three sample pump clicks, followed by a long beep sound. Analysing Sample will then be displayed (refer Figure 13).

3.6.7. Analysing a Passive Breath Sample

After a valid breath sample is taken, the *Analysing Sample* message is displayed until the device determines if alcohol is present. This will normally take a few seconds. In cold climate conditions it may take longer to display the result.

When the Passive standard reading is calculated, it will be displayed and retained until the Recovering period has ended.

If a *Pass No Alcohol* reading is displayed the device has indicated that no alcohol was detected in the near vicinity of subject's exhaled breath. When the Recovering period has ended the device is ready for next Passive standard breath test (refer Figure 19).

Figure 19 – Pass No Alcohol message

To perform another Passive standard breath test, repeat steps in paragraph 3.6.4.

If a *Warning Alcohol Present* reading is displayed the device has indicated that alcohol was detected in the near vicinity of subject's exhaled breath (refer Figure 20).

Figure 20 – Warning Alcohol Present message

After the recovery period has ended, the device is enabled automatically to take an Active (Mouthpiece) sample (refer Figure 21). Perform an Active test in accordance with the procedures in paragraph 3.6.1.

Figure 21 – Warning Alcohol Present/Press for Active Test display

3.6.8. Enabling Passive Only

To enable Passive Only, perform the same steps as in paragraph 3.6.5 with the exception of step 3.6.5.c. Press the Test key until *Passive Only* is displayed.

NOTE

A Passive Only test will not automatically enable an Active (Mouthpiece) test the same way a Passive Standard test does.

3.6.9. Taking a Passive Only Breath Sample

The procedures for performing a Passive Only test are the same as those for performing a Passive Standard test (refer paragraph 3.6.6).

NOTE

When a *Warning Alcohol Present* reading is displayed after performing a Passive Only test, it is strongly recommended that a Mouthpiece Breath Test be performed, after the recovery period has ended (refer paragraph 3.6.2).

3.7. Back operation

The user menus include a Back selection which when selected will return to the previous screen. To select Back, proceed as follows:

a. Press the Up/down buttons until ◂ *Back* is highlighted (refer Figure 22).

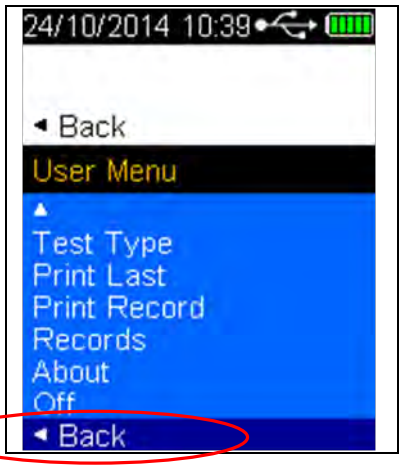

Figure 22 – Screen Back selection

b. Press the Test key. The display will return to the previous screen.

3.8. Shutting Down

The LE5 will automatically shut down after a period of inactivity. Should the device be required to be shut down manually (e.g. to conserve battery life), perform the following procedures:

a. With the screen displaying press to test, Press the Up and Down buttons simultaneously. The User Menu will be displayed (refer Figure 15).

b. Using the down button, scroll down to off (refer Figure 23).

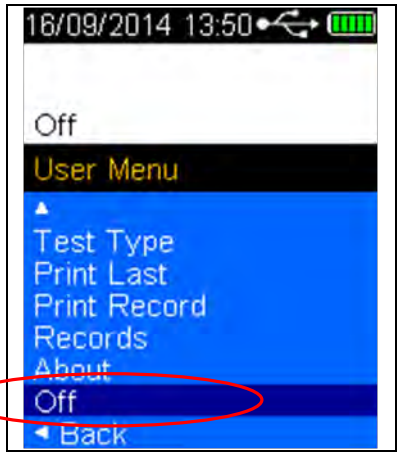

Figure 23 – Off displayed

c. Press the Test key. The device will turn off.

To further conserve battery life, the device will automatically switch off the display back light after two minutes. To re-activate the device following back light power down, Press the Test key or Up/down buttons. The device will display the last screen that was activated at the time the back light switched off.

4. TEST OPTIONS MENU

4.1. Test Cancel

If the user wishes to cancel a test, perform the following steps:

a. With the Blow screen displayed, Press the Up and Down buttons simultaneously. The *Test Options Menu* and *Test Cancel* is displayed (refer Figure 24).

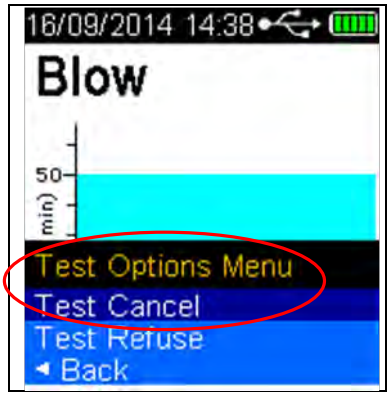

Figure 24 – Test Options Menu and Test Cancel

b. Press the Test key. The screen will return to the press to test display.

4.2. Test Refusal

If a test is refused, the user can activate the Test Refuse option as follows:

a. With the Blow screen displayed, press the Up and Down buttons simultaneously. The *Test Options Menu* and *Test Cancel* is displayed (refer Figure 24).

b. Press the Down button to highlight *Test Refuse* (refer Figure 25).

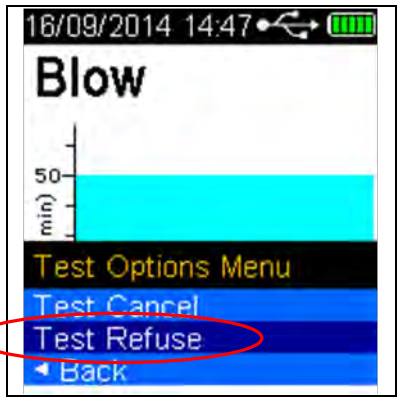

Figure 25 – Test Refuse displayed

c. Press the *Test key*. The device will beep rapidly for one second and *Test Refused* will be displayed flashing momentarily (refer Figure 26). The screen will then return to *the press to test* display. The test refusal will be recorded in Records.

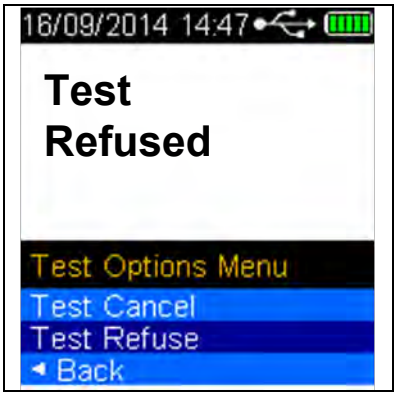

Figure 26 – Test Refused displayed

5. GPS

The Global Positioning System (GPS) function (if installed) enables the exact location of the device to be known and under certain circumstances, the location of testing to be recorded. Two GPS mode functions are available: Mobile and Static.

NOTE

Depending on the specific configuration of the device, the GPS functions are either enabled or disabled. These functions are generally enabled as a Customer requirement by Alcolizer Technology. Should the device in use require the enabling of certain GPS functionality, contact Alcolizer Technology for further advice.

5.1. Acquiring GPS satellites

To acquire GPS satellites, perform the following steps:

a. With the screen displaying press to test, Press the Up and Down buttons simultaneously. The User Menu will be displayed (refer Figure 15).

b. Press the Down button to highlight GPS (refer Figure 27).

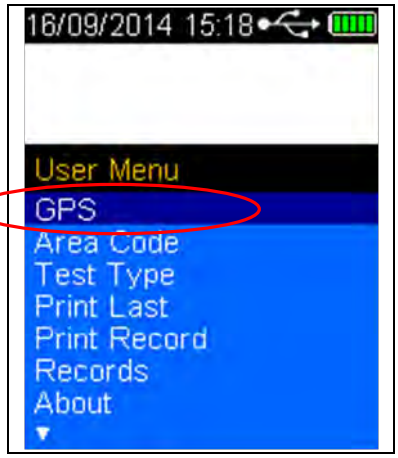

Figure 27 – GPS displayed

c. Press the Test key. The GPS acquisition screen will be displayed.

As each satellite is acquired, the respective yellow bar and satellite number will be displayed and its location will be displayed on the map. Once sufficient satellites are acquired for an accurate position, the Latitude and Longitude will be displayed (refer Figure 28).

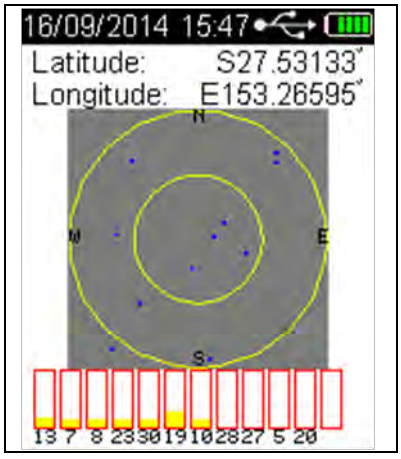

Figure 28 – GPS Acquisition

Once the GPS location is acquired, it will be visible on the menu screen (refer Figure 29).

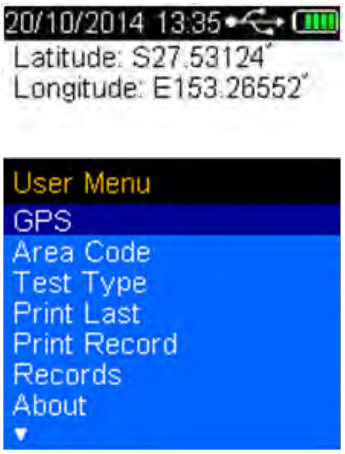

Figure 29 – GPS position on Menu Screen

5.2. GPS Mode configuration

Refer to Table 1 for GPS mode configuration.

Table 1 – GPS mode configurations

Mobile	Static
Positive Tests	Positive Tests
All tests	All tests
Threshold	Threshold
Off	Off

5.3. Static GPS Mode Operations

The Static GPS Mode Operations (if enabled) will initiate a once only GPS position fix before a Standard Active Breath Test. The same GPS position fix or *Location Unknown* will then be logged against all breath test readings performed thereafter while ever the device remains on (refer Figure 30).

Whatever configuration is chosen on Static Mode the device will always acquire the location prior to the first test. Then you have a choice of the following three options:

a. Positive Tests which will record the location only on positive readings,

b. All tests which will record zero and positive readings, or

c. Threshold which will only record readings above a defined threshold.

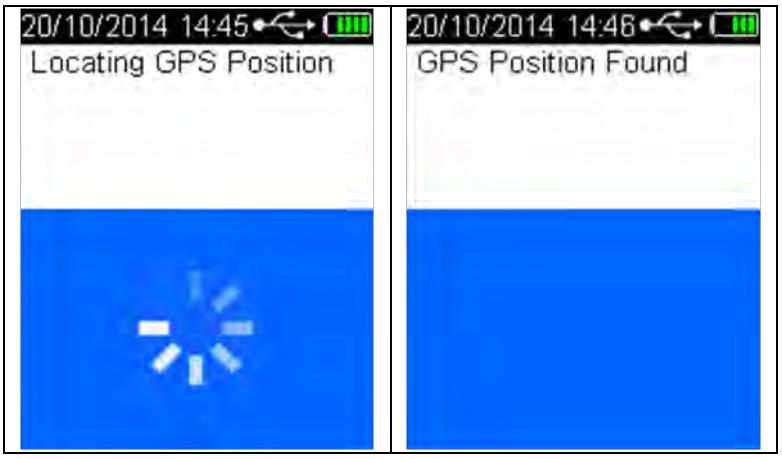

Figure 30 – Locating GPS Position and notifying GPS Position Found

5.4. Mobile GPS Mode Operations

Mobile GPS Mode Operations is the default mode if the GPS function is enabled. In this mode, the device will log a GPS position fix with every Standard Active Breath Test when the BAC reading is displayed. The GPS position fix will then be logged with the test reading (refer Figure 31).

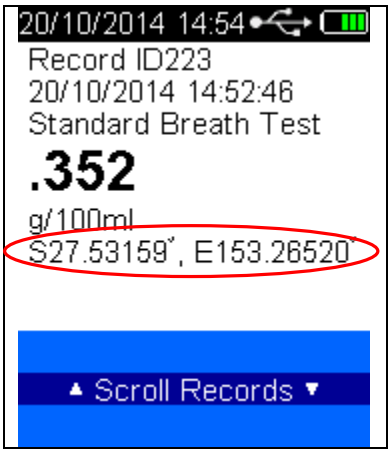

Figure 31 – GPS Position displayed in Records

If there is no location fix then *Location Unknown* is logged against the test reading. The default time for locating a GPS position fix is set to 120 seconds. If a GPS fix is not located within this period then L*ocation Unknown* is recorded.

NOTE

If the device is configured to record a GPS fix for positive test readings, then a GPS fix operation will only occur when a reading is above zero BAC.

6. SENDING AND PRINTING DATA

The printing function (if installed) enables the printing of records by connecting the LE5 to a portable printer via Bluetooth connection.

The device supports the following printers:

- Axiohm A631.
- SPRT SP-T5.
- SPRT SP-T7.
- Custom S'Print.
- Custom MYPrinter.
- Bixolon SPP-R200.
- Zicox HDM322.

NOTE

For information on operating the printer, refer to the appropriate printer User Manual.

6.1. Bluetooth Connection

In order to establish the connection with the printer via Bluetooth, access to the device set up menu is required. Establish Bluetooth connectivity as follows:

a. Switch the LE5 device on (refer paragraph 3.6).

b. With the screen displaying *press to test*, Press the Up and Down buttons simultaneously for approximately five seconds. The menu screen will be displayed during this process and then the password set-up code '00000000' will be displayed (refer Figure 32).

Figure 32 – Password set-up code 00000000

c. Press the Test key until the cursor is under the fifth '0'.

d. Press the Up button until that number is '5' (refer Figure 33).

Figure 33 – Password set-up code 00005000

e. Press the Test key until the Set-up menu is displayed.

f. Press the Down button until *Bluetooth Comms* is highlighted (refer Figure 34).

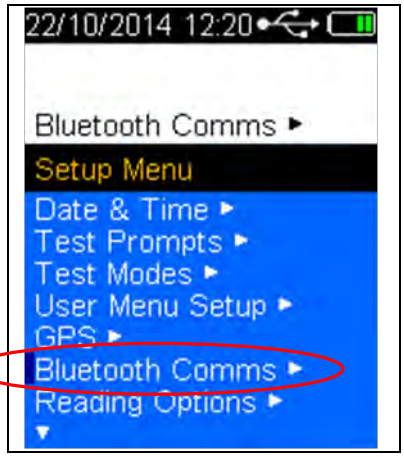

Figure 34 – Bluetooth Comms

g. Press the Test key. The printer pairing screen will be displayed (refer Figure 35).

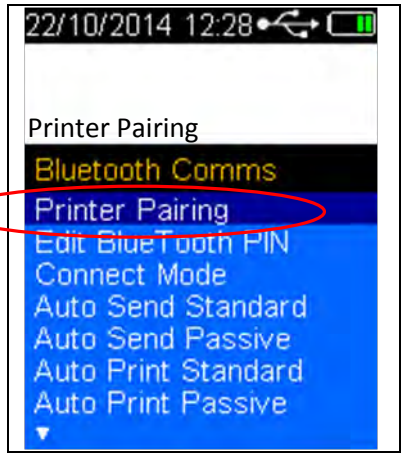

Figure 35 – Printer pairing screen

h. Place the LE5 device next to the Bluetooth printer and then switch the printer on.

i. Press the Test Key. The LE5 will search for the printer and display *Searching...* (refer Figure 36).

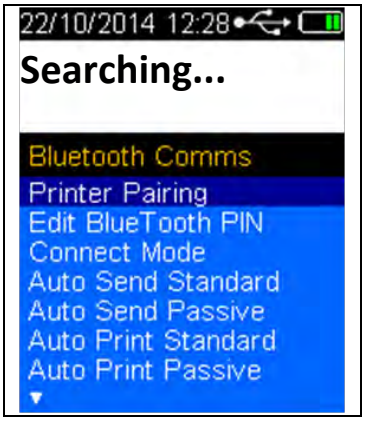

Figure 36 – Searching displayed

NOTE

The LE5 will search and display all Bluetooth devices in range. To avoid attempting to connect to a device other than the intended printer, move other Bluetooth items away.

When the LE5 identifies the printer, the printer type will be displayed, E.g. 'SPP-R200' (refer Figure 37).

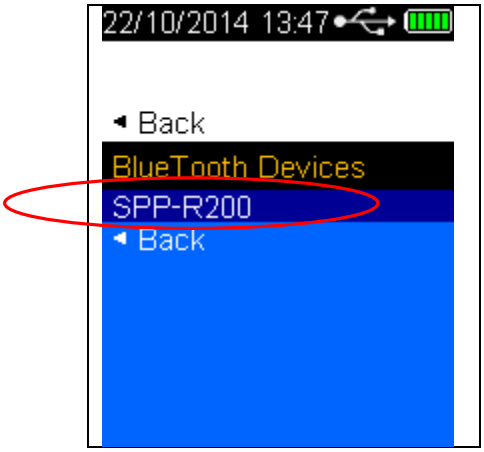

Figure 37 – Printer identified

j. Press the Test key to accept the selected printer.

6.2. Printer driver

6.2.10. Installing the printer driver

To install the printer driver, proceed as follows:

a. Access the printer menu as described in paragraphs 6.1.a to 6.1.g.

b. Press the Down button and scroll down to *Printer Driver* (refer Figure 38).

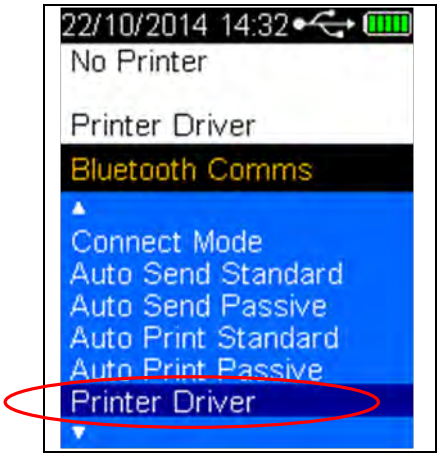

Figure 38 – Printer Driver displayed

c. Press the Test key.

d. Press the Down button and scroll down to the printer brand and type, e.g. *Bixolon SPP-R200*.

e. Press the Test key. The printer brand and type will be displayed on the screen, e.g.: *Bixolon SPP-R200* (Figure 39).

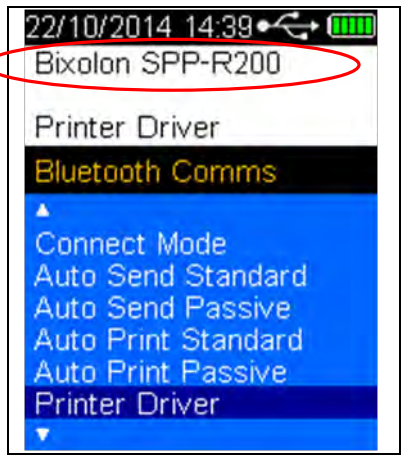

Figure 39 – Printer brand and type displayed

Once the LE5 device is paired with the printer, the Bluetooth icon is visible on the screen at all times (refer Figure 40).

Figure 40 – Bluetooth icon on screen

6.3. Connect Mode

There are two Connect modes for the printing function on the LE5: On Demand and Permanent.

6.3.1. On Demand

On Demand Connect mode is only used when printing is required on an ad hoc basis and not after every test.

To activate On Demand Connect mode, proceed as follows:

a. Establish Bluetooth communications with the printer in accordance with the procedures at paragraph 6.1.a to 6.1.g.

b. Scroll down until *Connect Mode* is highlighted (refer Figure 41).

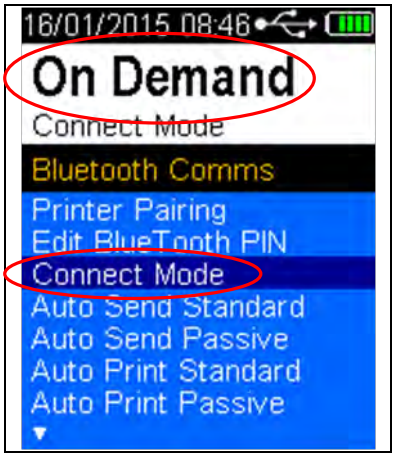

Figure 41 – Setting Connect Mode

c. *On Demand* is highlighted as the default setting.

6.3.2. Permanent

Permanent Connect mode is used when the results of every test are to be printed.

To activate Permanent Connect mode, proceed as follows:

a. Perform the procedures at paragraph 6.3.1.

b. With *Connect Mode* highlighted, press the Test key.

c. *Permanent* will be displayed (ref Figure 42).

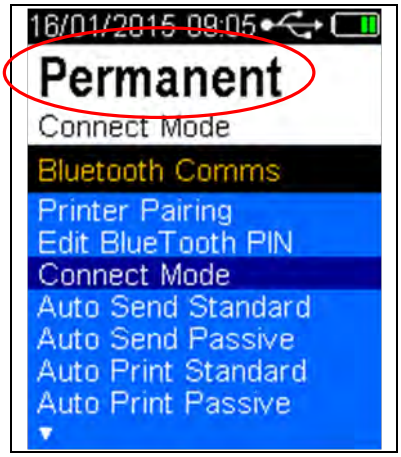

Figure 42 – Permanent Connect Mode

6.4. Auto Send

NOTE

To ensure the correct operation of the Auto Send function, Auto Print Standard and Auto Print Passive must be set to *None*.

The Auto Send functions allow the automatic sending of results via a Bluetooth connection to a paired device (laptop computer, PC) in a serial data format. The data can be read/received by a serial terminal application e.g. Putty.

There are two Auto Send modes and each of these has three options. These are Auto Send Standard and Auto Send Passive. Both have the following options:

- Positive – sends positive results after test is completed.
- All – sends positive and zero results after test is completed.
- None.

6.4.1. Auto Send Standard

Auto Send Standard applies only to Mouthpiece (Active) testing. Depending on the Auto Send Standard option selected, the following information will be transmitted following tests:

- Positive – if alcohol is detected: a complete report including time, location (lat/long if GPS enabled), test type, result etc will be transmitted.
- All – regardless of results: a complete report including time, location (lat/long if GPS enabled), test type, result etc will be transmitted.

To set the LE5 to Auto Send Standard, scroll down until *Auto Send Standard* is highlighted. Positive is the default option. To select *All or None*, press the Test key until the desired option is highlighted (refer Figure 43).

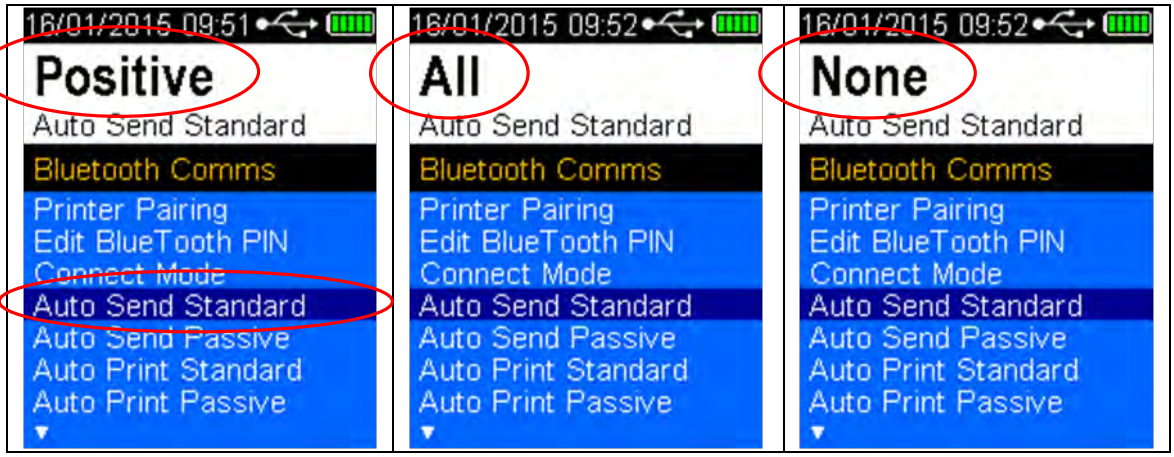

Figure 43 – Auto Send Standard with the three options

6.4.2. Auto Send Passive

Auto Send Passive applies only to *Passive testing*. Depending on the Auto Send Passive option selected, the information may be transmitted following the various tests except *None*. The result will be either *false* if no alcohol is detected or *true* if alcohol is detected per the following explanations:

- Positive – if alcohol is detected: A short report including time, device information, test type, etc will be transmitted.
- All – if alcohol is either detected or not: a short report including time, device information, test type, etc will be transmitted.
- None – regardless of results: nothing transmitted.

To set the LE5 to Auto Send Passive, scroll down until Auto Send Passive is highlighted. *Positive* is the default option. To select *All or None*, press the Test key until the desired option is highlighted (refer Figure 44).

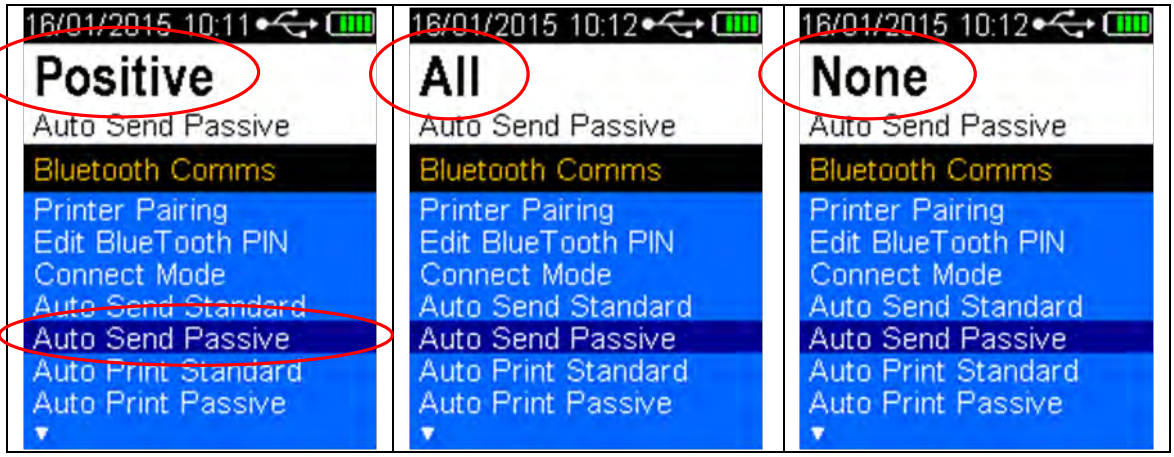

Figure 44 – Auto Send Passive with the three options

6.5. Auto Print

NOTE

To ensure the correct operation of the Auto Print function, Auto Send Standard and Auto Send Passive must be set to *None*.

The Auto Print functions allow the automatic printing of results via a Bluetooth connection to a paired printer.

There are two Auto Print modes and each of these has three options. These are Auto Print Standard and Auto Print Passive. Both have the following options:

- Positive – prints positive results after test is completed.
- All – prints positive and zero results after test is completed.
- None.

6.5.1. Auto Print Standard

Auto Print Standard applies only to Mouthpiece (Active) testing. Depending on the Auto Print Standard option selected, the following information will be printed following tests:

- Positive – if alcohol is detected: a complete report including time, location (lat/long if GPS enabled), test type, result etc will be printed.
- All – regardless of results: a complete report including time, location (lat/long if GPS enabled), test type, result etc will be printed.

To set the LE5 to Auto Print Standard, scroll down until *Auto Print Standard* is highlighted in a similar manner to *Auto Send Standard* (Figure 43). Positive is the default option. To select *All or None*, press the Test key until the desired option is highlighted.

6.5.2. Auto Print Passive

Auto Print Passive applies only to *Passive testing*. Depending on the Auto Print Passive option selected, the information may be printed following the various tests except *None*. The result will be either *false* if no alcohol is detected or *true* if alcohol is detected per the following explanations:

- Positive – if alcohol is detected: A short report including time, device information, test type, etc will be printed.
- All – if alcohol is either detected or not: a short report including time, device information, test type, etc will be printed.

- None – regardless of results: nothing transmitted.

To set the LE5 to Auto Send Passive, scroll down until *Auto Print Passive* is highlighted in a similar manner to *Auto Send Passive* (Figure 44). Positive is the default option. To select *All or None*, press the Test key until the desired option is highlighted.

6.6. Setting the Bluetooth printer PIN

Once the printer driver is installed, in may be necessary to set the correct PIN for the printer. To set the PIN, proceed as follows:

a. Access the printer menu as described in paragraphs 6.1.a to 6.1.g.

NOTE

It may not be necessary to follow all of the procedures above depending on the last screen that was displayed.

b. Press the Down button and scroll to *Edit Blue Tooth PIN*.

c. Press the Test key. *Enter pin length* will be displayed (refer Figure 45).

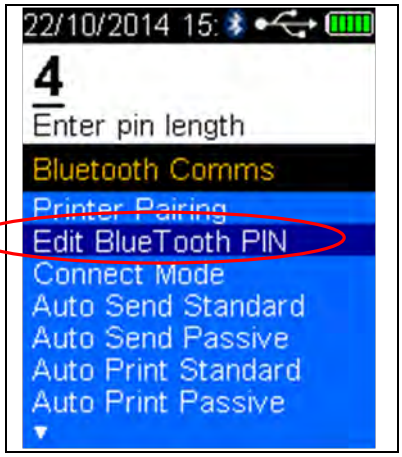

Figure 45 – Enter pin length displayed

d. Refer to Table 2 for the particular printer PIN length and number. The Communications Range is provided as additional information.

Table 2 – Printer pin length displayed

Standard Printers	PIN Digit Length	PINs	Communication Range
Bixolon SPP-R200	4	0000	Up to 10 metres
Axiohm 631	6	631200	Up to 10 metres
Custom S'Print	5	12345	Up to 5 metres
Custom MYPrinter	4	0000	Up to 5 metres
Zicox HDM322	4	0000	Up to 3 metres
SPRT SP-T5	4	1234	Up to 0.5 metre
SPRT SP-T7	4	0000	Up to 5 metres
NOTE: If the printer is not listed, refer to the printer User Manual for PIN			

e. Using the Up/down buttons, select the PIN length that applies to the printer, e.g. for the Bixolon SPP-R200, select 4.

f. Use the Up or Down buttons to display the first number of the PIN, e.g. 0.

g. Press the Test key to advance to the next number and repeat step f.

h. Repeat steps g. and f. until all numbers are displayed as required by the printer (refer Figure 46).

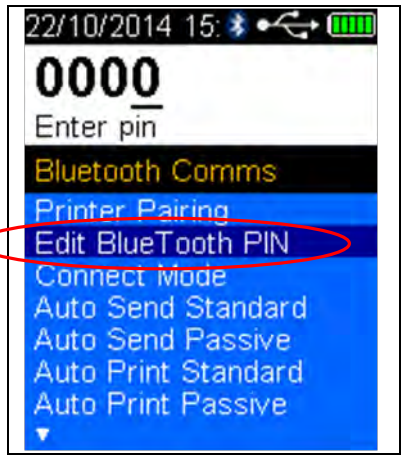

Figure 46 – PINs entered

i. Press the Test key. The PIN is now set.

6.7. Printing records

6.7.1. Automatic printing

Once the LE5 and printer are paired, turned on and within Bluetooth range, the printer will automatically print a record of the breath sample at the time of the test.

6.7.2. Printing records

To print the last breath test, perform the following procedures:

a. With the screen displaying *press to test*, press the Up and Down buttons simultaneously. The User Menu will be displayed (refer Figure 15).

b. Press the Down button and scroll to *Print Last* (refer Figure 47).

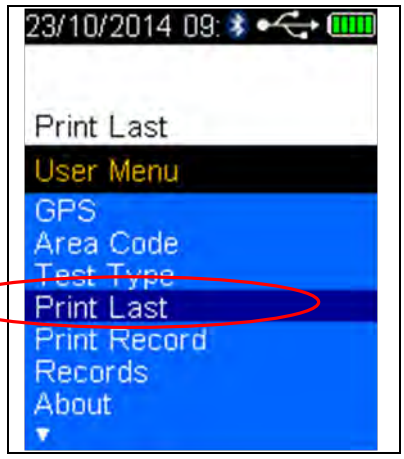

Figure 47 – Print Last displayed

c. Press the Test key. The printer will print the last test.

To print a record, perform the following procedures:

a. With the screen displaying *press to test*, press the Up and Down buttons simultaneously. The User Menu will be displayed (refer Figure 15).

b. Press the Down button and scroll to *Print Record* (refer Figure 48).

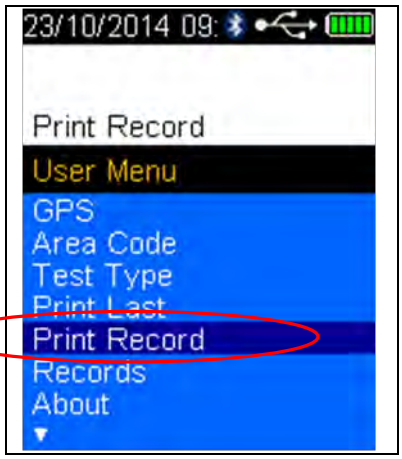

Figure 48 – Print Record displayed

c. Press the Test key. Records will be displayed.

d. Press the Up/Down buttons as needed to locate the record required.

e. When the required record is located, press the Test key. The record will be printed.

NOTE

For information about Records, refer to Section 8.

7. AREA CODE

Area codes are used to identify the location of a breath test. To set an area code, perform the following procedures:

a. With the screen displaying *press to test*, press the Up and Down buttons simultaneously. The User Menu will be displayed (refer Figure 15).

b. Press the Down button and scroll to *Area Code* (refer Figure 49).

Figure 49 – Area Code displayed

c. Press the Test key. The cursor will move below the first digit.

d. Use the Up/down buttons to advance the digit to the required number.

e. When the correct number is displayed, press the Test key. The number will be set and the cursor will move the next digit.

f. Repeat the steps at paragraph e. until all the numbers required are displayed (refer Figure 50).

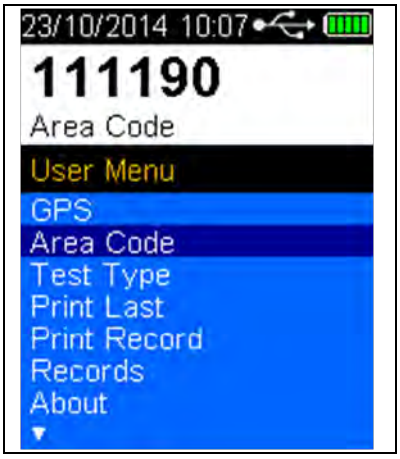

Figure 50 – Area Code Set

g. The Area Code is now set.

h. Press the Down button until ◂ *Back* is displayed.

i. Press the Test Key to return to the *press to test* screen.

8. RECORDS

8.1. Accessing Records

Records are retained in the instrument and can be downloaded via the Alcoconnect software support (refer section 11). It is recommended that records are periodically downloaded and erased from the device (refer paragraph 8.2). Access the records as follows:

a. Switch the device on (refer paragraph 3.6).

b. With the screen displaying *press to test*, press the Up and Down buttons simultaneously. The User Menu will be displayed (refer Figure 15 – Test Type displayed)

c. Using the down button, scroll down to *Records* (refer Figure 51 – Records displayed).

Figure 51 – Records displayed

d. Press Test key to activate the records.

e. Press the Up/down buttons to navigate through records as required.

f. Press the Up and Down buttons simultaneously to return to the User Menu.

NOTE

For information about printing records, refer to paragraph 6.7.

8.2. Clearing Records

As the device automatically stores records, the memory will eventually reach capacity and unless the data is downloaded, the storage of records will cease.

The device provides a series of warnings regarding memory capacity including memory reaching capacity, memory full and days since the memory has been full (refer Figure 52 – Memory capacity warnings).

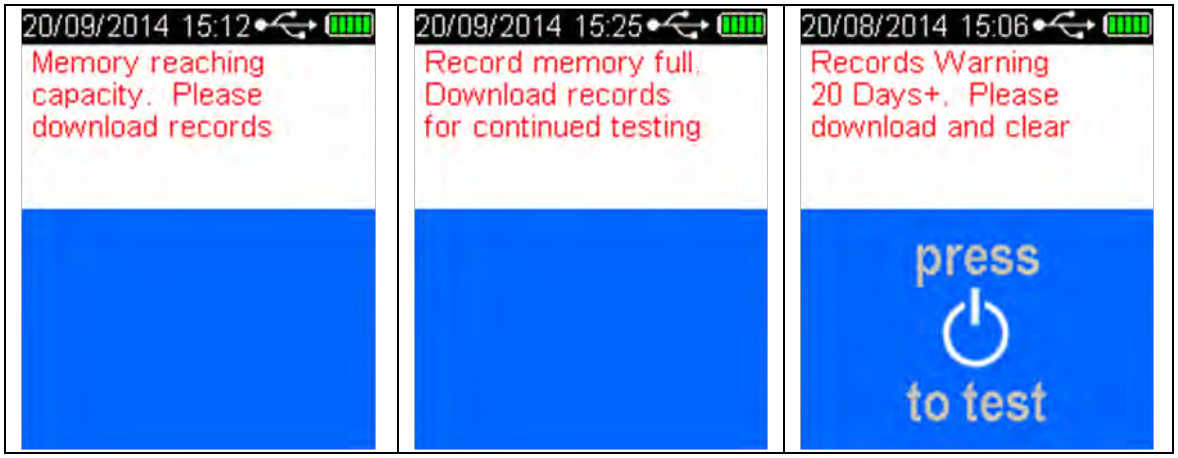

Figure 52 – Memory capacity warnings

9. CALIBRATION

9.1. Calibration alerts

The Alcolizer LE5 requires calibration every six months (190 days) as per Australian Standards Certification requirement.

The device will display a warning message after switch on if 14 days or less remain before calibration is required (refer Figure 53 – Days to calibration displayed).

Figure 53 – Days to calibration displayed

To cancel the warning messages press the Test key. The device will resume normal operation until zero days to re-calibration is reached.

When the re-calibration warning message period has expired, the *Recalibration Due Now* screen is displayed and the device is locked, preventing any further breath tests until the device is re-calibrated (refer Figure 54).

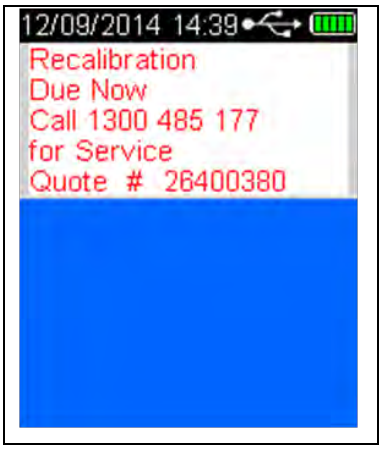

Figure 54 – Recalibration Due Now message

CAUTION

It is recommended that calibration of the device is performed before the warning message period expires. This will ensure uninterrupted testing can continue.

9.2. Replacing sample module

Rather than returning the device to Alcolizer for calibration, the sample module can be removed and sent in. This saves money and if the owner details are known and maintained with Alcolizer, arrangements can be made to forward a replacement sample module prior to the calibration being overdue.

Remove and replace the sample module as follows (refer Figure 55):

a. Undo the single screw on the back of the main module.

b. Slide off the out-of-cal sample module.

c. Slide on the new sample module.

d. Do up the single screw on the back of the main module.

CAUTION

Do not over tighten the sample module securing screw as this will damage the threaded portion. Tighten only enough to prevent the sample module from sliding away from the main module.

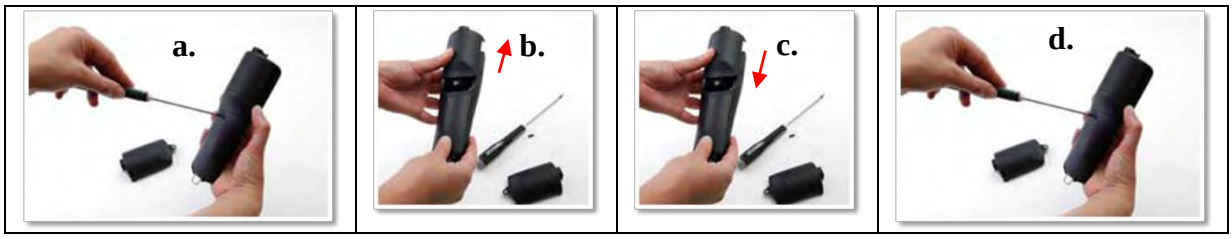

Figure 55 – Replacing a sample module

Following the replacement of the sample module, send the out-of-cal module back to Alcolizer.

The device can be returned to Alcolizer Technology for calibration should the owner prefer prior to the number of days warning message period expiring. To arrange calibration, contact Alcolizer Technology by any of the following means:

a. Phone: 1300 789 908;

b. Email: sales@alcolizer.com; or

c. Web: www.alcolizer.com

10. SPECIFICATIONS

The technical specifications of the LE5 are detailed in Table 3.

Table 3 – Alcolizer Technology LE5 Specifications

Instrument Application	Industry – Mouthpiece and Passive
BAC Range	0.000 - 0.500 g/100ml
Accuracy	Better than 0.005 at 0.100 BAC g/100ml
Test Time	Within 3-5 seconds at 0.100% BAC
Recovery Time	Instantaneous for 0.0000 BAC readings (reading remains on screen for 5 seconds)
Mouthpiece Type	Standard spigot locator or non-return mouthpiece. Not required for Passive testing
Sensor Type	Electro-chemical fuel cell (premium grade platinum)
Power Supply	Rechargeable Li-ION battery or AA Alkaline disposable batteries

Weight	272 grams
Dimensions	202mm H x 63mm W x 39mm D
Calibration	Six monthly recalibration at Alcolizer Technology's service facility

11. ALCOCONNECT

Alcoconnect assist in the analysis of data downloaded from the LE5 device.

The Alcoconnect software can be loaded from the supplied CD onto a compatible computer running MS Windows® XP, Vista, Win 7 or Win 8.

11.1. Installing Alcoconnect Software

Unless otherwise specified, the software will reside on the computer's 'C' drive.

NOTE

The procedures stated here apply to an installation on a computer equipped with MS Windows® 7. For other operating systems, refer to the appropriate User Manuals for direction if installation difficulties are encountered.

To install the Alcoconnect software, proceed as follows:

a. Load the Alcoconnect CD into the DVD drive of the computer. The AutoPlay window will appear (refer Figure 56).

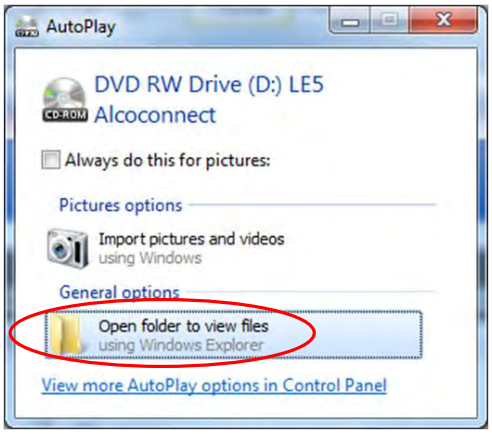

Figure 56 – AutoPlay window

b. Select the *Open folder to view files* option and click. The files on the CD will be listed (refer Figure 56).

c. Click on the *Setup* option (refer Figure 57). The Alcoconnect Setup window will appear.

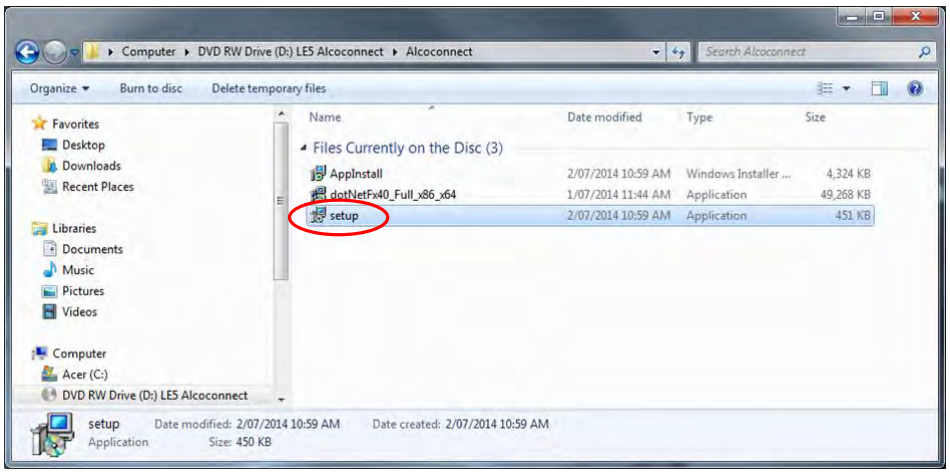

Figure 57 – CD Files list

d. On the Alcoconnect Setup window, click *Install* (refer Figure 58).

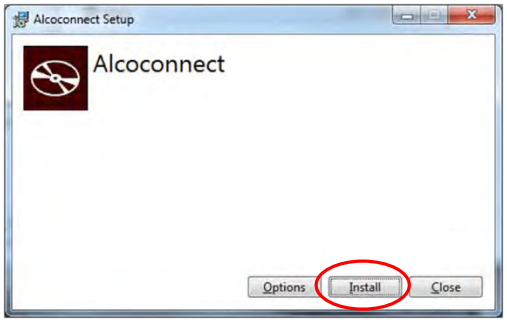

Figure 58 - Alcoconnect Setup window

e. Once the program is installed the Alcoconnect Setup window will display *Setup Successful*. Click on Close (refer Figure 59).

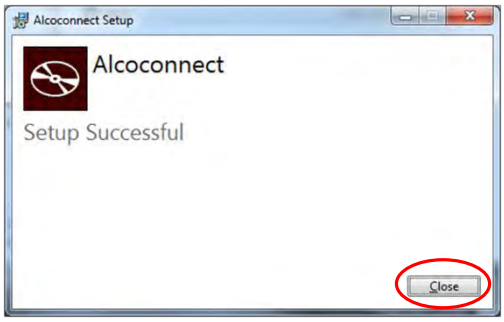

Figure 59 – Setup Successful

Following a successful installation, an Alcoconnect icon will appear on the Desktop.

11.2. Using Alcoconnect

Once installed onto the computer, access Alcoconnect as follows:

a. Connect the device to the computer via the USB cable (refer Figure 1).

b. Double click the Alcoconnect icon.

c. Turn the LE5 device on (refer paragraph 3.6). The *Read Event Log* window will be displayed (refer Figure 60).

A successful connection between the LE5 and the computer will be shown by a green segment on the *Read Event Log* window (refer Figure 60).

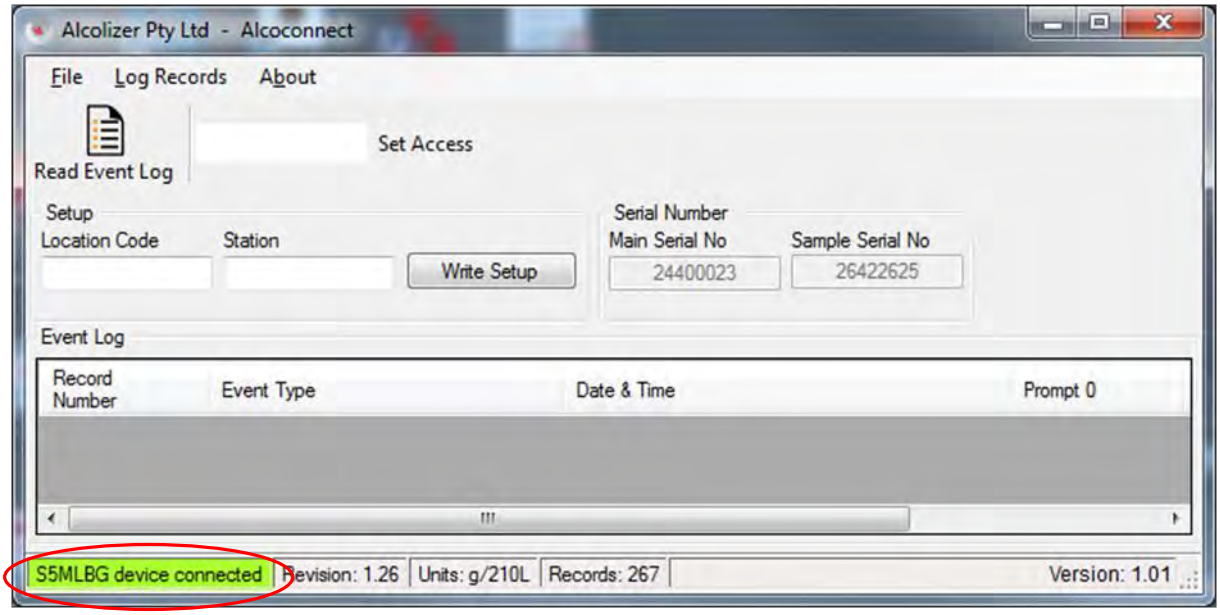

Figure 60 – Read Event Log Window

d. Click the *Read Event Log* icon and The Event Log will then be displayed (refer Figure 61).

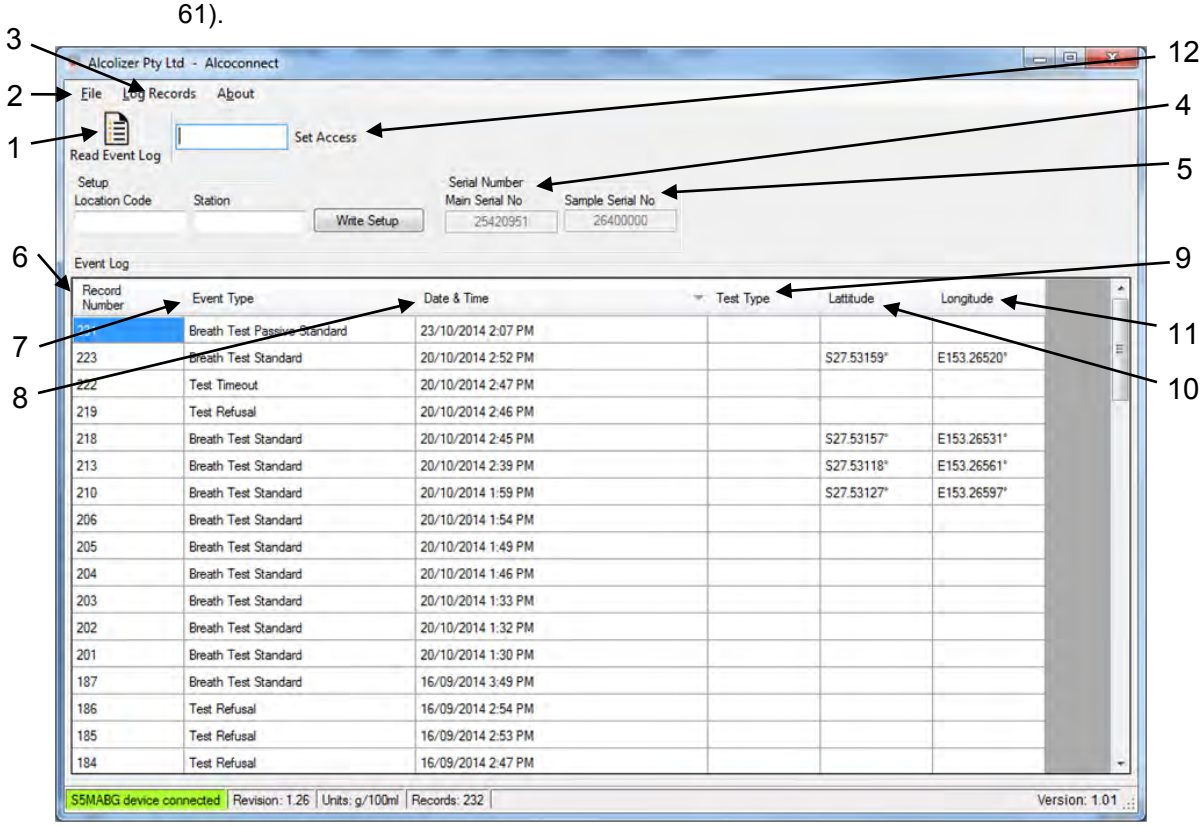

Figure 61 – Event Log

11.2.1. Navigating around the Event Log page

Refer to Table 4 and Figure 61 for a description of the Event Log page.

Table 4 – Event Log description

Figure Reference	Icon, Button or Heading	Description
1	Read Event Log icon	Select to download records from the LE5.
2	File icon	Select for: Save Event Log – save as a .csv or xml file to a file location in computer or elsewhere. Language - Choose a language if the LE5 is configured for multiple languages. Options - Set Log Settings. Refer to paragraph 11.2.2 for a description of Log Settings.
3	Log Records	Activates the Event Log application. Same function as the Read Event Log icon.
4	Main Serial Number	The serial number of the LE5.
5	Sample Serial Number	The serial number of the sample module.
6	Record Number	The number of each record.
7	Event Type	The type of test performed or event. E.g. breath test type (passive, standard), test timeout or refusal etc.
8	Date and Time	The data and time of the event.
9	Test Type	
10	Latitude	The latitude taken for the GPS (if installed and enabled) of the event.
11	Longitude	The longitude taken for the GPS (if installed and enabled) of the event.
12	Set Access	Used by authorised persons to access certain Alcoconnect functionality. Select the icon after inputting correct access code.

11.2.2. Set Log Settings (Filtering data)

To filter the data, access the Log Settings by clicking on *File*, then *Options*. The Log Setting window will appear (refer Figure 62). The required criteria can be made by enabling/dis-enabling the record types.

11.2.3. Saving Event Logs

Event Logs can be saved for future analysis by clicking *File*, then *Save Event* Log. The data can then be saved to the required location on the PC or laptop as a .csv or .xml file.

To maintain the security of data, files must be saved and protected by the user.

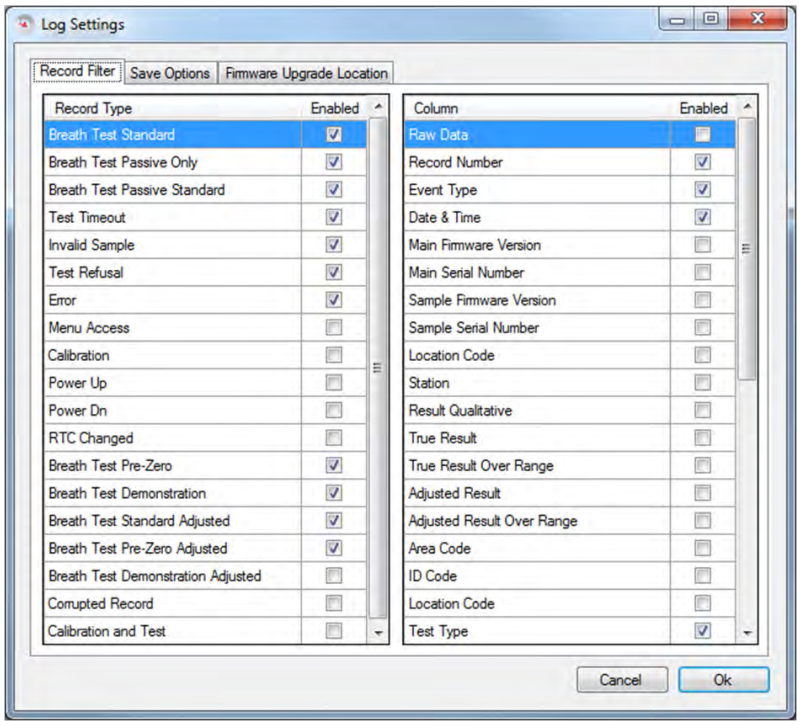

Figure 62 – Log Settings window

11.2.4. Erasing event logs or Clear log on device

Insert access code ‘00005000’ at set address field to enable additional features.